

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHODS FOR DETERMINING CHARACTERISTICS OF EARTH FORMATIONS

the specification of which:

- (a) ☒ is attached hereto.
(b) ☐ was filed on _____
as Serial No. _____
and was amended on _____ (if applicable).
(c) ☐ was described and claimed in PCT International Application
No. _____
filed on _____
and as amended under PCT Article 19
On _____ (if any).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35 United States Code, §§ 119(a)-(d) of any foreign application(s) for patent or inventor's certificate(s), or of any PCT International application(s) designating at least one country other than the United States listed below and have also identified below any foreign application(s) for patent or inventor's certificate(s), or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

- (a) ☒ No such applications have been filed.
(b) ☐ Applications have been filed as follows:

Prior Foreign/PCT Application(s) Filed Within Twelve (12) Months (6 Months for Design) Prior to This Application and Any Priority Claims Under 35 U.S.C. § 119(a)-(d)

Country (or indicate if PCT)	Application No.	Date of Filing (Day/Month/Year)	Priority Claimed Under 35 USC 119	
			<input type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/> YES	<input type="checkbox"/> NO

Claim for Benefit of Prior U.S. Provisional Application(s) (35 U.S.C. § 119(e))

I hereby claim the benefit under Title 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

<u>Provisional Application No.</u>	<u>Date of Filing</u> <u>Month/Day/Year</u>	<u>Status (Pending, abandoned, patented)</u>
____/____/____	____/____/____	_____
____/____/____	____/____/____	_____

Claim for Benefit of Earlier US/PCT Application(s) Under 35 U.S.C. § 120

I hereby claim the benefit under Title 35 United States Code, § 120, of any United States or PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application or PCT International application in the manner provided by the first paragraph of Title 35 U.S.C. § 112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56, that occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application (37 C.F.R. 1.63(e)).

<u>Application No.</u>	<u>Date of Filing</u> <u>Month/Day/Year</u>	<u>Status</u>
____/____/____	____/____/____	<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned
____/____/____	____/____/____	<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned

**All Foreign Application(s), if any, Filed More Than Twelve Months
(6 Months for Design) Prior to This U.S. Application**

<u>Application No.</u>	<u>Date of Filing</u> <u>Month/Day/Year</u>	<u>Status</u>
____/____/____	____/____/____	<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned
____/____/____	____/____/____	<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned

As a named inventor, I hereby appoint the following practitioner(s) with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

TIMOTHY G. ACKERMANN, Reg. No. 44,493; BENJAMIN J. BAI, Reg. No. 43,481; THOMAS L. CANTRELL, Reg. No. 20,849; THOMAS L. CRISMAN, Reg. No. 24,846; STUART D. DWORK, Reg. No. 31,103; WILLIAM F. ESSER, Reg. No. 38,053; J. KEVIN GRAY, Reg. No. 37,141; GERALD H. GLANZMAN, Reg. No. 25,035; LEKHA GOPALAKRISHMAN, Reg. No. 46,733; STEVEN R. GREENFIELD, Reg. No. 38,16; JOSHUA A. GRISWOLD, Reg. No. 46,310; J. PAT HEPTIG, Reg. No. 40,643; HSIN-WEI LUANG, Reg. No. 44,213; ROGER L. MAXWELL, Reg. No. 31,855; LISA H. MEYERHOFF, Reg. No. 36,869; STANLEY R. MOORE, Reg. No. 26,958; P. WESTON MUSSELMAN, JR., Reg. No. 31,644; SPENCER C. PATTERSON, Reg. No. 43,849; ROSS T. ROBINSON, Reg. No. 47,031; JAMES O. SKARSTEN, Reg. No. 28,346; GARY B. SOLOMON, Reg. No. 44,347; ANDRE M. SZUWALSKI, Reg. No. 35,701; ROBERT WILLIAM MASON, Reg. No. 42,848; RUSSELL N. RIPPAMONTI, Reg. No. 39,521; JERRY R. SELINGER, Reg. No. 26,582; STEVEN G. SZCZEPANSKI, Reg. No. 27,957; BRIAN D. WALKER, Reg. No. 37,751 and GERALD T. WELCH, Reg. No. 30,332 of the firm of JENKENS & GILCHRIST, P.C., 3200 Fountain Place, 1445 Ross Avenue, Dallas, Texas 75202-2799; and

Address all telephone calls and correspondence to:


P. Weston Musselman, Jr., Esq.
Jenkins & Gilchrist, P.C.
3200 Fountain Place, 1445 Ross Avenue
Dallas, Texas 75202-2799
Telephone: 214-855-4764
Facsimile: 214-855-4300
e-mail: wrmusselman@jenkens.com

Customer No.:



23932

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1	Ronald L. Spross		27 Sept 2007
	Full Name of Sole or First Inventor		Inventor's Signature
	19731 Oak Briar Drive	USA	
	Humble, TX 77346		
Residence Address	Citizenship		
	19713 Oak Briar Drive		
	Humble, TX 77346		
	Post Office Address		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REVOCATION AND NEW POWER OF ATTORNEY

Under 37 CFR §3.73(b) Halliburton Energy Services, Inc., a Delaware corporation, certifies that it is the assignee of 100% of the right, title and interest in the nine (9) patents and patent applications listed on the attached Appendix (TABLE 1) by virtue of assignments from the inventors of the patents and patent applications. The assignments for all of the nine (9) patents and patent applications were recorded in the Patent and Trademark Office at Reel and Frame numbers provided in the Appendix (TABLE 1).

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

The undersigned, acting on behalf of the assignee, hereby revokes all powers of attorney previously granted in the applications and appoints:

Russell Rippamonti, Reg. No. 39,521
William Borchers, Reg. No. 44,549
Kevin Gray, Reg. No. 37,141
Joshua Griswold, Reg. No. 46,310
Harold Fox, Reg. No. 41,498
Mark Ellinger, Reg. No. 34,812
Scott Harris, Reg. No. 32,030, all of the firm of:

P. Weston Musselman, Jr., Reg. No. 31,644
Spencer Patterson, Reg. No. 43,849
Keith Taber, Reg. No. 46,114
Rocky Tsao, Reg. No. 34,053
Hans Troesch, Reg. No. 36,950
Frederick Rabin, Reg. No. 24,488

FISH & RICHARDSON P.C.
1717 Main Street, Suite 5000
Dallas, Texas 75201
Telephone: (214) 747-5070
Facsimile: (214) 747-2091

with full power of substitution and revocation, to prosecute the patent applications and to transact all business in the United States Patent and Trademark Office connected with the patents and patent applications.

Per 37 C.F.R. § 10.18(b), the undersigned has reviewed all the documents in the chain of title of the patents and patent applications listed on the attached Appendix (TABLE 1), or made an inquiry reasonable under the circumstances, and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

All correspondence regarding the patents and patent applications should be sent to:

26231

PTO Customer No: 26231

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the applications or any patents issued thereon.

Respectfully submitted,

Date: July 23, 2003

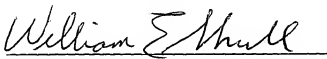

By: William Shull
Title: Vice President & Chief
Patent Counsel
Halliburton Energy Services, Inc.
2101 City West Blvd.
Bldg. 2, Room 1519A
Houston, TX 77042

TABLE 1

HALLIBURTON ENERGY SERVICES, INC.

Attorney Docket Number	Application Serial No.	Reel/Frame and Chain of Title
15834-002002	10/167,737	Assignment from parent application, Patent Serial No. 09/255,612, filed 02/19/99, now issued, Patent No. 6,429,784: Recorded 02/19/99, Reel/Frame 009785/0905, from Inventors to Dresser Industries, Inc.; Recorded 02/07/03, Reel/Frame 013727/0291, from Dresser Industries, Inc. (now know as DII Industries, LLC) to Halliburton Energy Services, Inc.
15834-002003	10/167,934	Assignment from parent application, Patent Serial No. 09/255,612, filed 02/19/99, now issued, Patent No. 6,429,784: Recorded 02/19/99, Reel/Frame 009785/0905, from Inventors to Dresser Industries, Inc.; Recorded 02/07/03, Reel/Frame 013727/0291, from Dresser Industries, Inc. (now know as DII Industries, LLC) to Halliburton Energy Services, Inc.
15834-002004	10/167,974	Assignment from parent application, Patent Serial No. 09/255,612, filed 02/19/99, now issued, Patent No. 6,429,784: Recorded 02/19/99, Reel/Frame 009785/0905, from Inventors to Dresser Industries, Inc.; Recorded 02/07/03, Reel/Frame 013727/0291, from Dresser Industries, Inc. (now know as DII Industries, LLC) to Halliburton Energy Services, Inc.
15834-002005	10/167,675	Assignment from parent application, Patent Serial No. 09/255,612, filed 02/19/99, now issued, Patent No. 6,429,784: Recorded 02/19/99, Reel/Frame 009785/0905, from Inventors to Dresser Industries, Inc.; Recorded 02/07/03, Reel/Frame 013727/0291, from Dresser Industries, Inc. (now know as DII Industries, LLC) to Halliburton Energy Services, Inc.
15834-002006	10/167,738	Assignment from parent application, Patent Serial No. 09/255,612, filed 02/19/99, now issued, Patent No. 6,429,784: Recorded 02/19/99, Reel/Frame 009785/0905, from Inventors to Dresser Industries, Inc.; Recorded 02/07/03, Reel/Frame 013727/0291, from Dresser Industries, Inc. (now know as DII Industries,

		LLC) to Halliburton Energy Services, Inc.
15834-008001	09/970,370	Recorded 10/02/01, Reel/Frame 012234/0967, from Inventor to Halliburton Energy Services, Inc.
15834-010001	10/059,829	Recorded 01/29/02, Reel/Frame 012545/0219, from Inventor to Halliburton Energy Services, Inc.
15903-002001	10/116,472	Recorded 04/04/02, Reel/Frame 012763/0414, from Inventor to Halliburton Energy Services, Inc.
15903-003001	10/208,384	Recorded 07/29/02, Reel/Frame 013161/0444, from Inventors to Halliburton Energy Services, Inc.